

1 Attorney Docket No. 83085

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3                   ELASTOMERIC EJECTION SYSTEM WITH  
4                   ACOUSTICALLY IMPROVED CHECK VALVE

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6                   ABSTRACT OF THE DISCLOSURE

7 -       A system for launching bodies from a submarine includes a  
8       pump for transferring seawater to an elastomeric ejection tank,  
9       and a check valve that permits transfer of the seawater to the  
10      tank, and closes upon filling of the tank. The valve includes a  
11      head and a seat, a stem having fixed thereon the head and a disk  
12      having a circular protrusion extending toward the seat, a cup  
13      mounted around the stem and having a circular depression in a  
14      surface thereof, and radially extending holes disposed in the  
15      cup. During valve closure, the disk protrusion enters the cup  
16      depression forcing water in the depression to exit the cup  
17      through a primary restrictive path of an annular gap between the  
18      protrusion and depression and a secondary restrictive path of the  
19      radially extending holes, to slow the valve head in movement  
20      during engagement with the valve seat.